



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of : **Docket No. 0074-456205.1**  
**ANDREW WILSON et al.** :  
Application No. 10/661,806 :  
Filed: September 12, 2003 :  
Confirmation No. 7381 :  
For: **APPARATUS AND METHOD** :  
**FOR REMOTE GAS SENSING** :

**PRELIMINARY AMENDMENT**

As a preliminary matter, please amend the above-identified application as follows:

**In the Claims:**

1.(Original) Apparatus for remote gas sensing comprising a light source, a photodetector, a gas cell containing gas or a zone through which the gas passes and through which light from the light source passes and is reflected back to the photodetector, wherein the light source, photodetector and gas cell are connected by a single polarisation preserving optical fibre through which light from the light source passes to the gas cell, which light reflected back from the cell passes back through the optical fibre with a different polarisation to that to the light transmitted by the light source.

2.(Original) Apparatus according to claim 1 further comprising means to polarise the returned light exiting the gas so that it re-enters the optical fibre polarised orthogonal to the transmitted light.

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